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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,004	07/23/2003	Zhihe Li	219002034100 9912		
25225 7	590 07/10/2006	EXAMINER		INER	
MORRISON & FOERSTER LLP			GRAFFEO	GRAFFEO, MICHEL	
	BLUFF DRIVE	ART UNIT	PAPER NUMBER		
SUITE 100	CA 02120 2040	L	- TATER NOMBER		
SAN DIEGO,	CA 92130-2040		1614		
			DATE MAILED: 07/10/2006	DATE MAILED: 07/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Арр	lication No.	Applicant(s)			
		10/6	626,004	LI ET AL.			
	Office Action Summary	Exa	miner	Art Unit			
		Mich	nel Graffeo	1614			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICH - Extension after SI - If NO per - Failure of Any rep	RTENED STATUTORY PERIOD FOR IEVER IS LONGER, FROM THE MAD IN SOME IN THE MAD IN SOME IN THE MAD IN	AILING DATE (of 37 CFR 1.136(a). In unication. tutory period will apply will, by statute, cause	OF THIS COMMUNICATION n no event, however, may a reply be time y and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠ R	esponsive to communication(s) file	d on <i>08 March</i> :	2006				
·		b)⊠ This actio					
'=	<u> </u>						
•—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositio	n of Claims						
4)⊠ C	laim(s) <u>1-30</u> is/are pending in the a	polication.					
·	4a) Of the above claim(s) 6-9,11-18 and 20-30 is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
·	⊠ Claim(s) <u>1-5,10 and 19</u> is/are rejected.						
• • •	Claim(s) is/are objected to.						
	laim(s) are subject to restrict	tion and/or elec	tion requirement.				
Applicatio	n Papers						
	•	Evaminer					
•	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority un	der 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
•	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
J	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s	s)						
	of References Cited (PTO-892)		4) Interview Summary				
	of Draftsperson's Patent Drawing Review (Pition Disclosure Statement(s) (PTO-1449 or I		Paper No(s)/Mail Da	ate Patent Application (PTO-152)			
	ition Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date	F 1 U/3B/U8)	6) Other:	atom ripphodulon (i 10-102)			

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group V in the reply filed on 13 April 2006 is acknowledged. The traversal is on the ground(s) that the Office has done nothing to state specifically why these groups constitute unrelated inventions and that the inventions are similarly classified. This is not found persuasive because the different active agents (see claims 12 and 19 for example) are classified in different subclasses. In particular, the compound of claim 12 is classified in class 514 subclass 243, whereas the compound of claim 19 classified in class 514 subclass 247. Claims 6-9, 11-18 and 20-30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

The requirement is still deemed proper and is therefore made FINAL.

Status of Action

Claims 1-5, 10 and 19 are examined.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The MPEP sets forth the following at §2173: "The primary purpose of this requirement of definiteness of claim language is to ensure that the scope of the claims is clear so the public is informed of the boundaries of what constitutes infringement of the patent. A secondary purpose is to provide a clear measure of what Applicants regard as the invention so that it can be determined whether the claimed invention meets all the criteria for patentability and whether the specification meets the criteria of 35 U.S.C. 112, first paragraph, with respect to the claimed invention." (See MPEP §2173).

The phrase "non-interfering substituent" as recited in present claim 19 is a phrase that renders the claims indefinite. The expression "non-interfering substituent" is not defined by the claims to properly delineate which substituents are actually contemplated for use as R2, R3, or R4 such that the small organic molecule is fundamentally changed.

Regarding the phrase "non-interfering substituent", the present specification fails to provide a limiting definition for this term. Applicant discloses at paragraph [0045], "As used herein, a 'non-interfering substituent' is a substituent which leaves the ability of the compound as described in the formulas provided herein to inhibit TGF-b activity qualitatively intact. Thus, the substituent may alter the degree of inhibition. However, as long as the compound retains the ability to inhibit TGF-b activity, the substituent will

be classified as 'non-interfering'." Given its broadest, most reasonable interpretation, the phrase "non-interfering substituent" encompasses any or all substituents that do not completely inhibit the TGFb-R1 kinase receptor binding activity. However, Applicant has failed to make clear on the record to what extent the TGFb kinase receptor binding activity can be altered and still retain its binding function such that a substituent would be either included or excluded from the genus of "non-interfering substituents". As a result, it is unclear from both the claims and the corresponding disclosure what substituents are actually intended by this limitation.

For these reasons, the claims as written do not reasonably apprise the skilled artisan of the metes and bounds of the subject matter for which Applicant seeks protection. Claim 19 fails to meet the tenor and express requirements of 35 U.S.C. 112, second paragraph, and is, thus, properly rejected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 10 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by WO 2004/024159.

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The WO 2004/024159 reference teaches that TGF β inhibitors having the following structural formula:

$$\mathbb{R}^3$$
 \mathbb{N}
 \mathbb{N}

are useful for the treatment of lung fibroses resulting from excessive activity include adult respiratory distress syndrome, COPD, idiopathic pulmonary fibrosis, and interstitial pulmonary fibrosis often associated with autoimmune disorders, such as systemic lupus erythematosus and chemical contact, or allergies (see pages 2-3). Examiner notes that the instant Application has a filing date of 23 July 2003 and claims the benefit of 60/399369 and further that the instant Application is not entitled to the 60/399369 date because the compounds of formula (1) above are not supported by the earlier provisional application.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140

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F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-5, 10 and 19 are provisionally rejected on the ground of nonstatutory double patenting over claims 20 and 23 of copending Application No. 10660115. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

The subject matter claimed in the instant application is fully claimed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows: a method of treating fibroproliferative disorders (i.e. COPD) comprising the compound of formula (1) as noted above.

Claims 1-5, 10 and 19 are provisionally rejected on the ground of nonstatutory double patenting over claims 1-3, 13 and 32 of copending Application No. 10440428.

This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

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The subject matter claimed in the instant application is fully claimed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows: a method of treating fibroproliferative disorders (i.e. COPD) comprising the compound of formula (1) as noted above.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michel Graffeo whose telephone number is 571-272-8505. The examiner can normally be reached on 9am to 5:30pm Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

28 June 2006 MG

> ARDIN H. MARSCHEL SUPERVISORY PATENT EXAMINED